**Substance:** PCAP1

**Date:** 160517

**Zebrafish DOB:** 160507 (10 dpf)

**Aim:** Dose response PCAP1/ dark

**Volume in wells:** 1 ml + 20 µl

**Stock PCAP1 solution:** 10 mM in DMSO (50 µl)

**Dilute to:** **500 µM** (50 µl 10 mM PCAP1 + 950 µl E3)

**150 µM** (300 µl 500 µM PCAP1 + 700 µl E3)

**50 µM** (100 µl 500 µM PCAP1 + 900 µl E3)

**10 µM PCAP1:** (20 µl 500 µM PCAP1) / **3 µM PCAP1:** (20 µl 150 µM PCAP1) / **1 µM PCAP1:** (20 µl 50 µM PCAP1)

**Control:** 20 µl 5% DMSO/E3 (0.2% in wells)

**Stock Apomorphine solution:** 10 mM in DMSO (50 µl)

**Dilute to: 2500 µM** (300 µl 10 mM Apomorphine + 900 µl E3)

Plate 1:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Well | 1 | 2 | 3 | 4 | 5 | 6 |
| A | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM |
| B | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM |
| C | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM |
| D | Control | Control | Control | Control | Control | Control |

Plate 2:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Well | 1 | 2 | 3 | 4 | 5 | 6 |
| E | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM | PCAP1 10 µM |
| F | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM | PCAP1 3 µM |
| G | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM | PCAP1 1 µM |
| H | Control | Control | Control | Control | Control | Control |

File

**Add PCAP1**

**Record during 13x5 min in total darkness**

After 0 min: recording during 5 min 120507

After 5 min: recording during 5 min 121009

After 10 min: recording during 5 min 121510

After 15 min: recording during 5 min 122011

After 20 min: recording during 5 min 122513

After 25 min: recording during 5 min 123014

After 30 min: recording during 5 min 123516

After 35 min: recording during 5 min 124017

After 40 min: recording during 5 min 124519

After 45 min: recording during 5 min 125020

After 50 min: recording during 5 min 125522

After 55 min: recording during 5 min 130023

After 60 min: recording during 5 min 130525

**Add Apomorphine (50 µM) to all wells**

**Record during 13x5 min in total darkness**

After 0 min: recording during 5 min 131821

After 5 min: recording during 5 min 132322

After 10 min: recording during 5 min 132824

After 15 min: recording during 5 min 133326

After 20 min: recording during 5 min 133827

After 25 min: recording during 5 min 134329

After 30 min: recording during 5 min 134831

After 35 min: recording during 5 min 135333

After 40 min: recording during 5 min 135835

After 45 min: recording during 5 min 140338

After 50 min: recording during 5 min 140840

After 55 min: recording during 5 min 141342

After 60 min: recording during 5 min 141844

**Other conditions:** Cover blanket, light off (IR-light only)

Exposure: 1360 µsec, 300 s per recording

Thermostat: 31.5°C

Water temperature: in bath: 30.5°C in wells: 28.0°C

After experiment: all larvae terminated on ice